

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
22 February 2001 (22.02.2001)

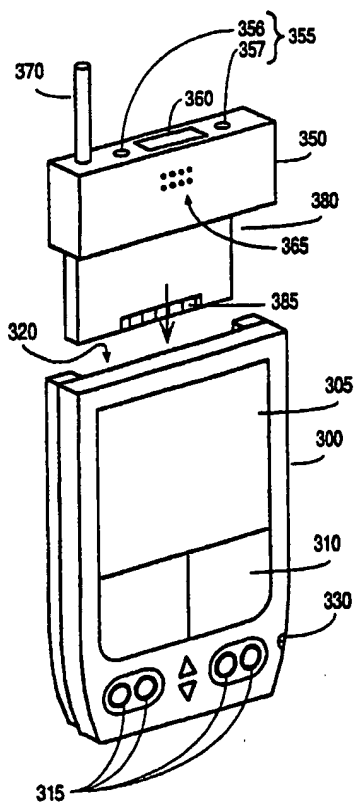
PCT

(10) International Publication Number
WO 01/13605 A3

- (51) International Patent Classification⁷: H04M 1/725
- (21) International Application Number: PCT/US00/22182
- (22) International Filing Date: 10 August 2000 (10.08.2000)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
09/374,095 12 August 1999 (12.08.1999) US
- (71) Applicant: HANDSPRING, INC. [US/US]; 189 Bernardo Avenue, Mountain View, CA 94043-5203 (US).
- (72) Inventors: HAWKINS, Jeffrey, C.; 18 West Summit Drive, Redwood City, CA 94062 (US). TU, Jerome, C.; 2222 Villanova Road, San Jose, CA 95130 (US). HAITANI, Robert, Y.; 1455 Fields Drive, San Jose, CA 95129 (US). CADWELL, Christie, L.; 1545 Country Club Drive, Los Altos, CA 94024 (US). TOWNSEND, Karl, A.; 334 Alicia Way, Los Altos, CA 94022 (US).
- (74) Agent: JOHANSEN, Dag; Statler Johansen & Adeli LLP, P.O. Box 51860, Palo Alto, CA 94303-0728 (US).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: A MOBILE COMPUTER SYSTEM DESIGNED FOR WIRELESS COMMUNICATION EXPANSION



(57) Abstract: A method and apparatus for an organizer that may receive a cellular portion to form a cellular telephone is provided. An organizer comprises an organizer component, including a microphone. The organizer further includes an area for receiving an additional component. The area is designed to receive a cellular component, and a connection element is designed to mate the microphone in the organizer component with the cellular component, to use the organizer as a part of a cellular telephone.

WO 01/13605 A3



Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(88) Date of publication of the international search report:
27 September 2001

INTERNATIONAL SEARCH REPORT

Ints onal Application No

PCT/US 00/22182

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04M1/725

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99 08238 A (IBM UK ; IBM (US)) 18 February 1999 (1999-02-18) page 2, line 34 - page 4, line 17 page 18, line 20 - line 23 ---	1-3, 7
X	FR 2 760 933 A (PHILIPS ELECTRONICS NV) 18 September 1998 (1998-09-18) page 1, line 1 - page 3, line 32 ---	1
A	US 5 584 054 A (TYNESKI FRANK M ET AL) 10 December 1996 (1996-12-10) column 1, line 38 - column 2, line 7 ---	7
X	EP 0 704 788 A (AT & T CORP) 3 April 1996 (1996-04-03) column 2, line 6 - line 19 -----	1
A		7

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

10 January 2001

Date of mailing of the international search report

02 05. 2001

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Vaucois, X

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 00/22182

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-7

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-7

Group I relates to the use of cellular component and an organizer together with the use of a unique microphone included in the organizer and used in the cellular component when this one is coupled to the organizer. By using the microphone of the organizer, the cellular component may be used as a telephone and there is no need of a microphone in the cellular component. Claims 4-6 aims at describing other technical features by means of the use of software stored in the cellular component and executed in the organizer.

2. Claims: 8-15,21

Group II relates to a system comprising a cellular component designed to mate an organizer having connecting means. The problem to solve is the connection between the cellular component, the organizer and the cradle of the organizer. The organizer comprises a special connector to be linked to the cellular component. Another connector is used to recharge the battery when connected to the cradle. Claim 15 concerning the use of the microphone serves to link with the group I.

3. Claims: 16-20,25

Group III relates to a system having an organizer and a cellular component having a plurality of applications. These applications are executed on the processor of the organizer. This feature solves the problem of the use of the capacity of the organizer to extend the functionality of the organizer.

4. Claims: 22-24,26-31

Group IV relates to a wireless communication system comprising an organizer and a wireless communication device. The claims focus on the transmission of status information coming from the wireless communication device and the way to display the information on the screen of the organizer.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 00/22182

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9908238 A	18-02-1999	US 6016476 A EP 1004099 A PL 338353 A TW 385400 B	18-01-2000 31-05-2000 23-10-2000 21-03-2000
FR 2760933 A	18-09-1998	NONE	
US 5584054 A	10-12-1996	CA 2152861 A,C CN 1133521 A DE 19523998 A FI 953215 A FR 2722632 A GB 2291560 A,B IT RM950487 A JP 8065178 A KR 149952 B SE 9502614 A SG 32407 A	19-01-1996 16-10-1996 01-02-1996 19-01-1996 19-01-1996 24-01-1996 18-01-1996 08-03-1996 15-05-1999 19-01-1996 13-08-1996
EP 0704788 A	03-04-1996	US 5625673 A CA 2156208 A JP 8129530 A	29-04-1997 23-03-1996 21-05-1996